

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A supporting device of a rotor, which comprises:

a ceramic axial tube which is a hollow tube with one end opening fixed on and closed by the rotor, and the other end opening closed by a lid, to allow a space formed within the ceramic axial tube to store lubricants;

at least one ceramic axial support rotationally supporting the ceramic axial tube;

and

a permeable structure formed on the ceramic axial ~~the tube~~ to allow the lubricants leaking out from inside of the ceramic axial tube.

2. (Original) The supporting device of the rotor of claim 1, wherein the rotor is a heat-dissipation fan.

3. (Original) The supporting device of the rotor of claim 1, wherein the spacing between the outer surface of the ceramic axial tube and the inner surface of the ceramic axial support is within the range of 2-25 μm .

4. (Original) The supporting device of the rotor of claim 1 wherein ceramic powders of a metal oxide selected from the group consisting of aluminum oxide, zirconium oxide, silicon oxide and a mixture thereof are used and uniformly formulated with a plastic agent, an assisting agent and a dispersing agent at a predetermined ratio.

5. (Original) The supporting device of the rotor of claim 1, wherein the permeable structure is a thin slot formed on the ceramic axial tube.

6. (Original) The supporting device of the rotor of claim 1, wherein the permeable structure is a hole formed on the ceramic axial tube.

7. (Original) The supporting device of the rotor of claim 1, wherein the lubricant is a fluoride-containing lubricant with a particle diameter smaller than 1 μm .

8. (Currently Amended) A supporting device of a rotor applied to at least one of a fan and a hard disk machine, which comprisescomprising:

a ceramic axial tube which is a hollow tube with one end fixed on ~~an~~ a rotor and is formed with at least one concave on the outer surface;

a ceramic axial support which rotationally supports said axial tube, wherein a storage space for lubricants is defined by an inner surface of said ceramic axial support and said concave on said outer surface of said ceramic axial tube, an entire inner surface of said ceramic axial tube being free of lubricants; and

~~said storage space~~ a spacing between said outer surface of said ceramic axial tube and said inner surface of said ceramic axial support is within the range of 2-25 μm for dispersing lubricants therefrom.

9. (Cancelled)

10. (Original) The supporting device of the rotor of claim 8, wherein ceramic powders of a metal oxide selected from the group consisting of aluminum oxide, zirconium oxide, silicon oxide and a mixture thereof are used and uniformly formulated with a plastic agent, an assisting agent and a dispersing agent at a predetermined ratio.

11. (Previously Amended) The supporting device of the rotor of claim 8, wherein said concave is formed in a middle circular concave section of said axial tube.

12. (Original) The supporting device of the rotor of claim 8, wherein the lubricant is a fluoride containing lubricant with a particle diameter smaller 1 μm .

13. (Currently Amended) A supporting device of a rotor applied to at least one of a fan and a hard disk machine, which comprisescomprising:

a ceramic axial tube which is a hollow tube having one end fixed on the rotor and the other end opening closed by a lid;

at least one ceramic axial support which rotationally supports said ceramic axial tube by a rotational corresponding spacing within the range of 2-25 μm which defines a lubricating chamber for receiving lubricant; and

means for allowing the lubricant to leak onto the outer surface of said ceramic axial tube;

wherein at least one of the ceramic axial tube and the ceramic axial support is formed as a non-cylindrical surface.

14-15. (Cancelled)

16. (Original) The supporting device of the rotor of claim 13, wherein ceramic powders of a metal oxide selected from the group consisting of aluminum oxide, zirconium oxide, silicon oxide and a mixture thereof are used and uniformly formulated with a plastic agent, an assisting agent and a dispersing agent at a predetermined ratio.